

F. CIP Order and Collection Diagnostics

<i>This appendix forms an integral part of the CIP specification.</i>

This appendix defines the CIP *diagnostic set*. The CIP *diagnostic set*, identified by the {Z39.50-CIP-Diagnostic-Set} OID, contains the list of *diagnostic conditions* that can be returned using the CIP in addition to the *diagnostic conditions* defined in the bib-1 *diagnostic set* identified by the {Z39.50-Diagnostic-bib-1} OID.

These are additional *diagnostics* of type ERR.1, which cover CIP-specific situations and conditions not foreseen by the Z39.50 (bib-1) default *diagnostic set*. The set *diagnostics* below is only preliminary, and is expected to be modified and added to as time passes and experience with CIP grows.

F.1 CIP Order diagnostics

These *diagnostics* cover most (but certainly not all) error or warning situations that may arise when using CIP ordering services. Note that this involves not only the use of the CIP Order ES, but also the retrieval of order options corresponding to a collection or product descriptor.

For this series of *diagnostics*, the error codes are numbered from 500 to 599, in order to separate them clearly from the rest of the Z39.50 standard *diagnostics*.

Table F-1 contains the list of the CIP *diagnostic conditions* specific to the CIP Order ES. Each *diagnostic condition* will contain the following information:

- **Code** contains the identifier of the *diagnostic condition*.
- **Meaning** describes the *diagnostic condition*.
- **Additional Information** provides additional information for the understanding of the *diagnostic condition*.

Table F-1: CIP Diagnostic Conditions specific to the CIP Order ES

Code	Meaning	Additional Information
500	CIP Order Extended Service not supported	(unspecified)
501	Ordering not supported for unregistered users	(unspecified)
502	Proxy ordering not supported at this site (username / password needed)	(unspecified)
503	Passthrough Order request failed: remote site not responding	(unspecified)
504	Proxy Order " " " "	(unspecified)
505	Order centre ID not recognised / unknown	OrderCentreID
506	Order specification is invalid (validation failed)	(unspecified)
507	Product type not supported by order centre	Product Type
508	User not authorised to order products of this type	Product Type
509	Invalid number of delivery units in OS (max value)	Number
510	Invalid number of order packages in DU (max value)	Number
511	Invalid number of order items in package (max value)	Number
512	Inexistent order spec / task package	(unspecified)
513	Order has already been cancelled	task package name
514	Order cancellation not supported at this site	(unspecified)
515	Unable to validate order specification	(unspecified)
516	Unable to submit order	(unspecified)
517	Unable to monitor order	(unspecified)
518	Unable to cancel order	reason
519	Unable to execute manual order monitoring request	(unspecified)
520	Unable to process order due to loss / degradation of archived data	(unspecified)
521	Unable to delete order task package	reason
522	Manual order monitoring not supported from this site	(unspecified)
523	Automatic (email) order monitoring not supported	(unspecified)
524	Email address for automatic monitoring incorrect	(unspecified)
525	Unable to execute search for Order on ES database	(unspecified)
526	Order task package not found in ES database	task package name
527	Invalid or inconsistent customer data (PO number, account, reference)	customer data
528	Invalid FTP address supplied for delivery (FTP push)	FTP address
529	Delivery method not supported for product type (FTP, email, postal)	(unspecified)
530	Payment method not supported by Ordering Centre	method
531	Unable to retrieve Order Options for Product / Collection descriptor	Item Descriptor
532	Order options not supported	unsupported options
533	Order options not valid	invalid options
534	Scene selection option not valid for product type:	scene selection option
535	Product processing options not valid for product type:	processing option

F.2 CIP Collections diagnostics

These *diagnostics* cover all search and retrieval situations specifically related to collections, as these are situations not covered by standard Z39.50 messages.

In particular, the *diagnostics* proposed address most of the situations involving collection hierarchies/trees and distributed multi-site collection searches.

In this set, the *diagnostic* code goes from 600 to 699. Note that not all aspects of collection related messaging are yet covered, as more input from practical use of the CIP and Retrieval Managers and clients is required. This new input will be integrated with the spec at some later date, possibly taking the opportunity to define also the more semantically meaningful ERR.2 type *diagnostics*.

Note that for some of *existing* Z39.50 ERR.1 *diagnostics* the word "collection" is used in place of "database".

The same conventions as for Table F-1 are used in Table F-2.

Table F-2: CIP Diagnostic Conditions specific to Collections

Code	Meaning	Additional Information
600	Collection not known at this site	Collection ID
601	Collection is not terminal	Collection ID
602	Collection is not non-terminal	Collection ID
603	Collection not accessible (owned by remote site presumed down)	Collection ID
604	Collection has been renamed	Collection ID + new ID
605	Collection has been moved	new location (path)
606	Collection purpose has changed	Collection ID + new purpose
607	Collection unavailable	Collection ID
608	Collection not searchable by user (no permission)	Collection ID
609	Collection not available for searching (ordering only)	Collection ID
610	Collection search found no matches	(unspecified)
611	Product search found no matches	(unspecified)
612	Too many collections specified for product / collection search	(unspecified)
613	Element set name not valid for specified collection	element set name
614	System error in execution of product search	(unspecified)
615	System error in execution of collection search	(unspecified)
616	Recursive path found in product / collection search	recursive path root
617	Collection is not an ordering node	Collection ID
618	Multiple paths to this collection	Collection ID
619	Unregistered (user) collections not supported at this site	(unspecified)